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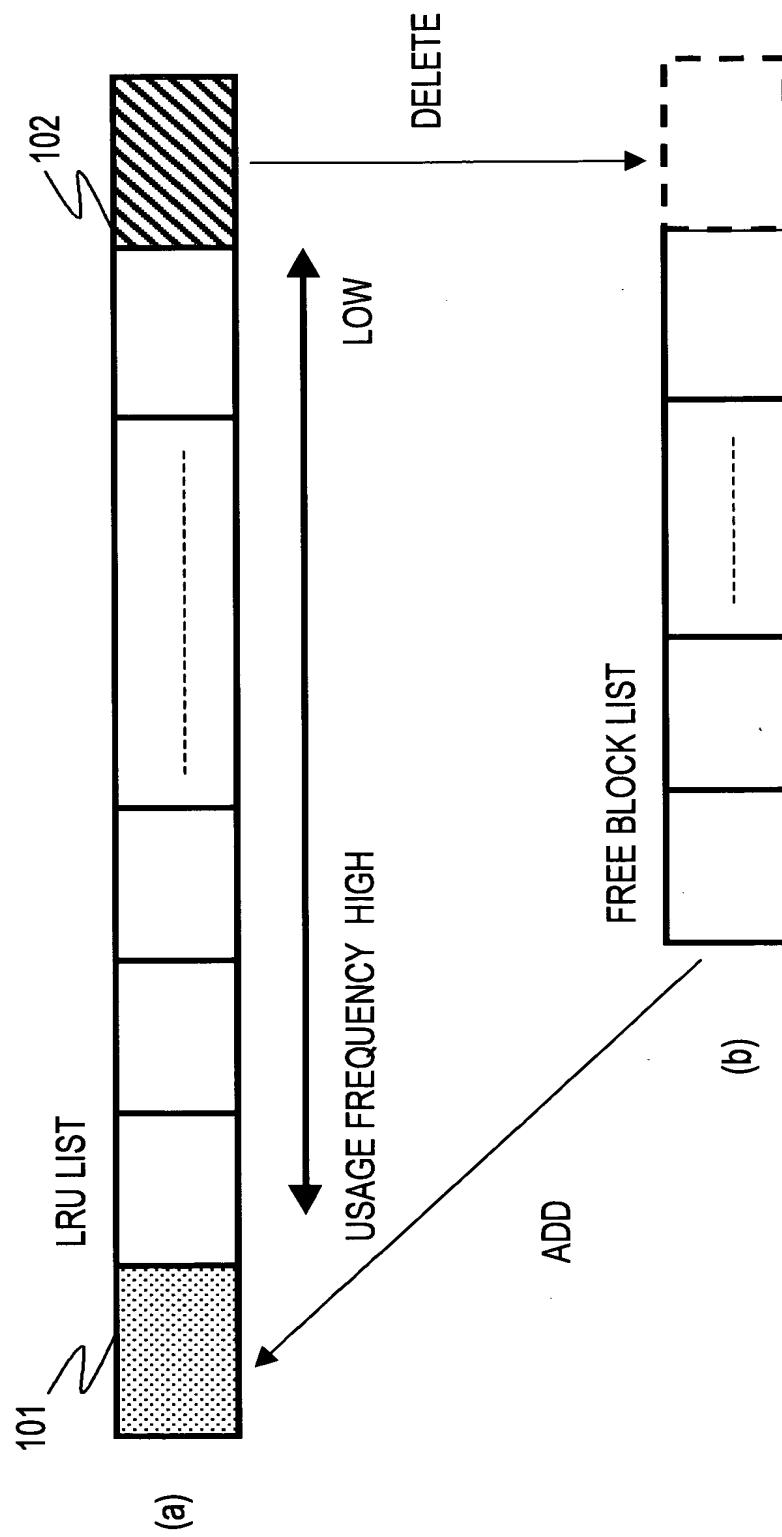


FIG. 1

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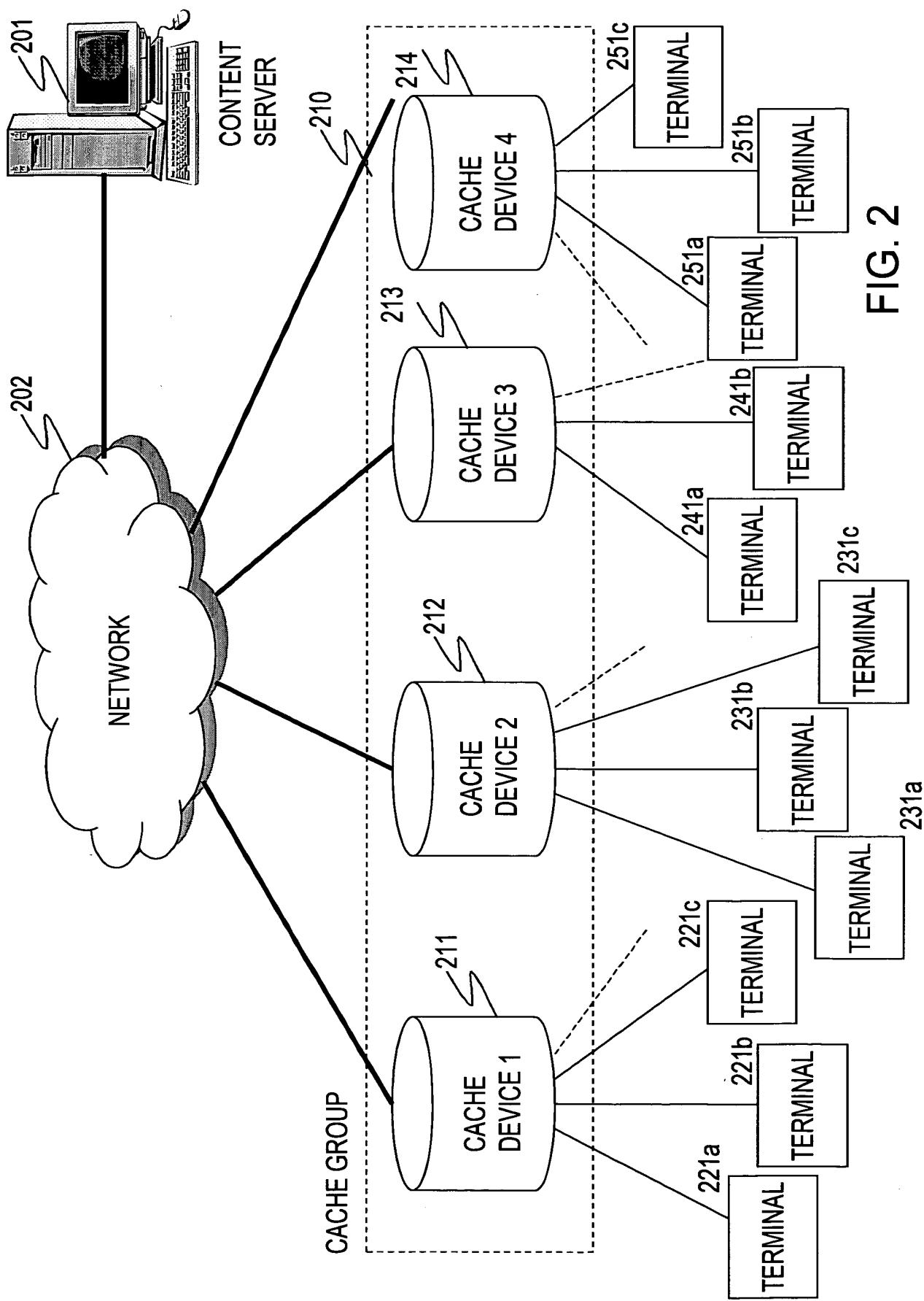
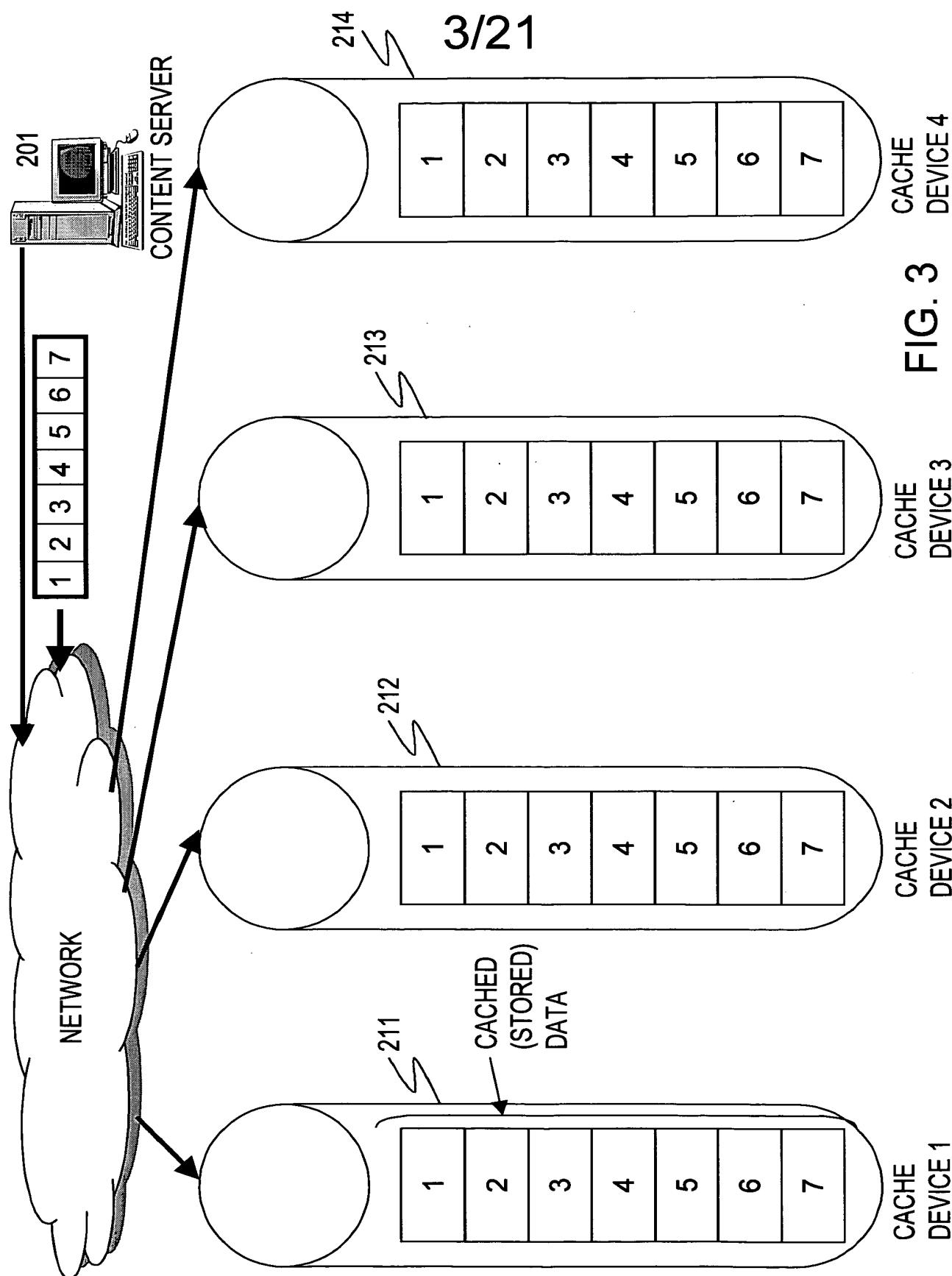


FIG. 2



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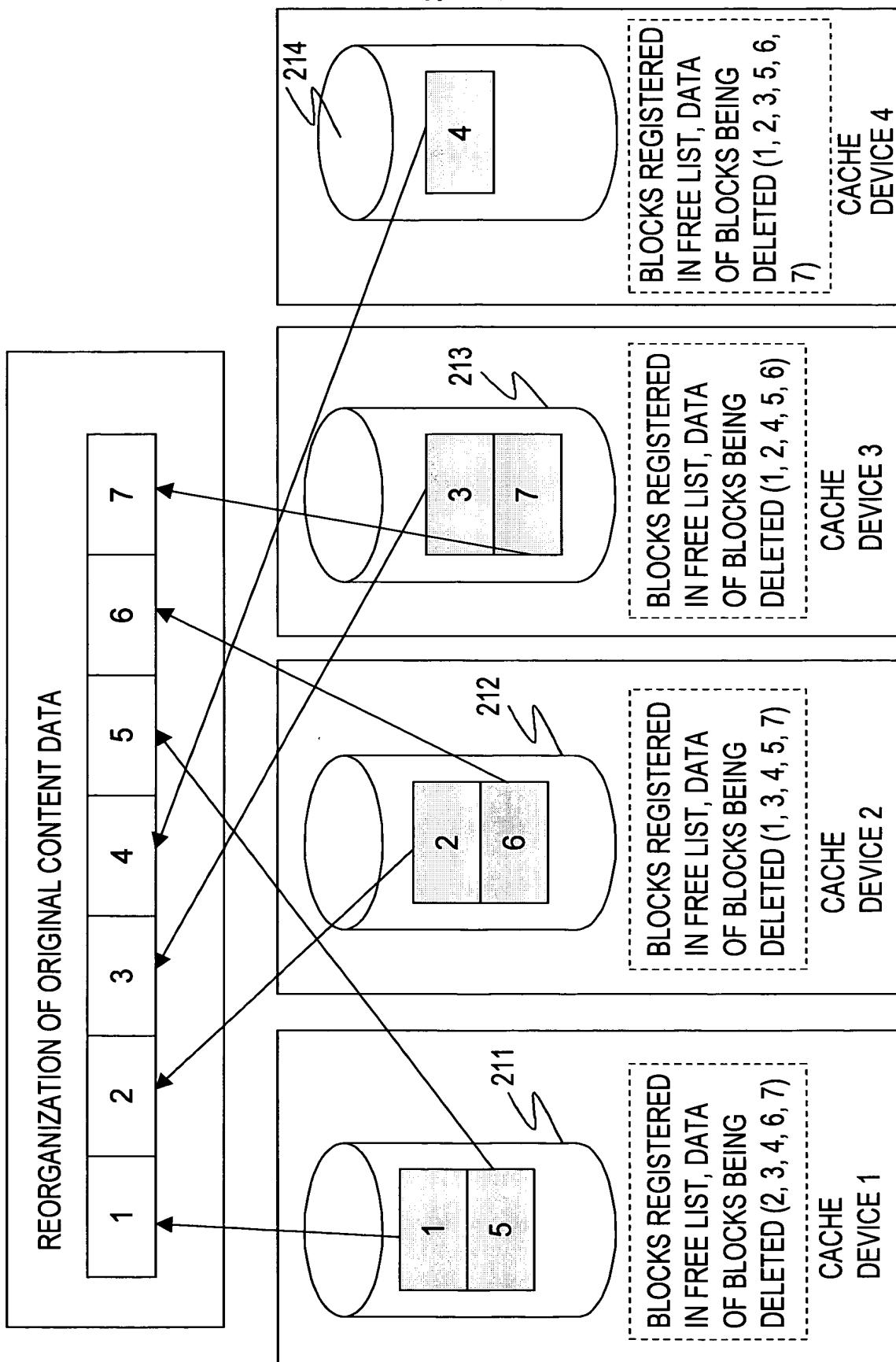


FIG. 4

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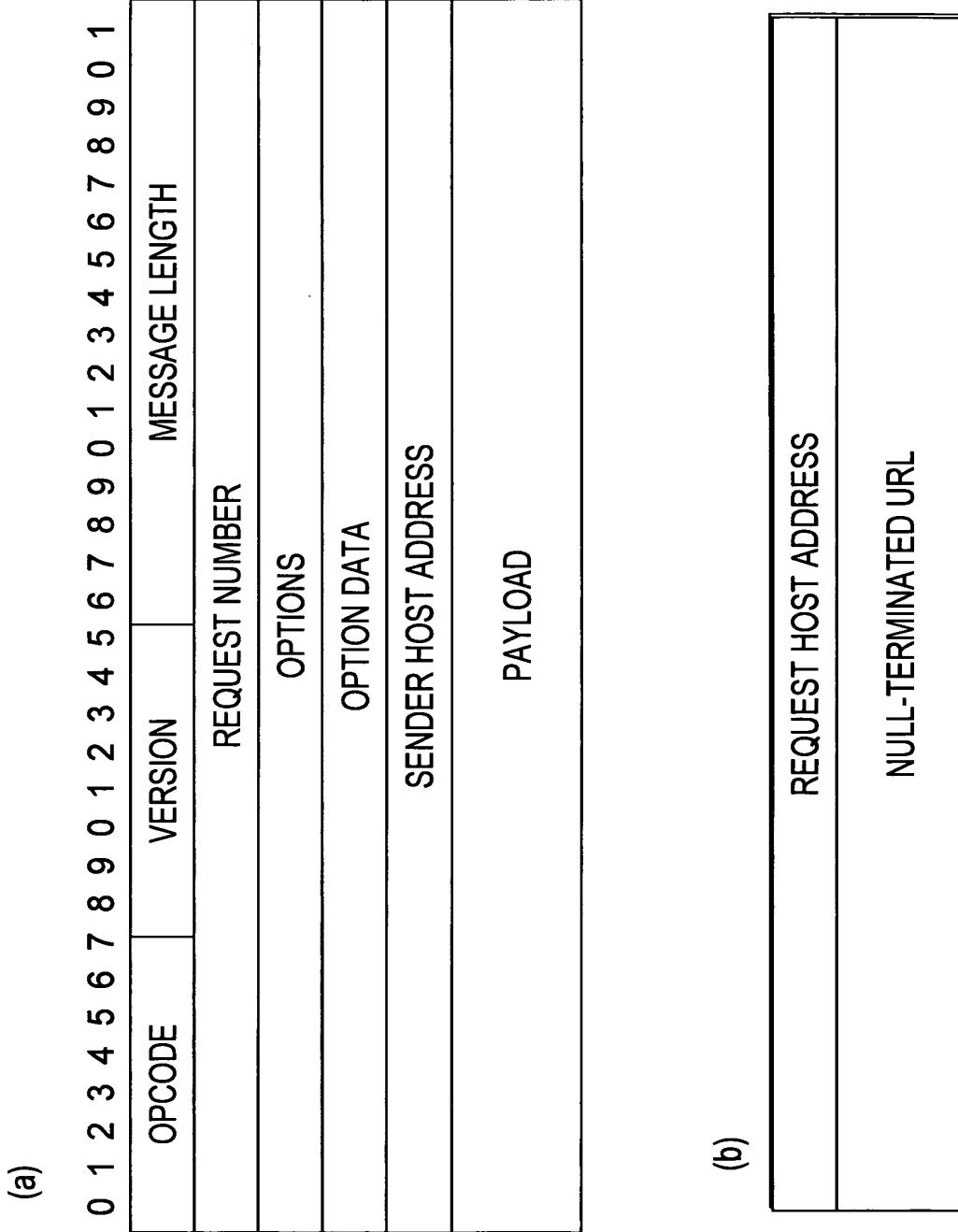


FIG. 5

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FIG. 6

HOST NAME	IP ADDRESS	ICP PORT NUMBER
cache1.home1.com	xx.yy.zz.a1	3130
cache2.home2.com	xx.yy.zz.a2	3130
cache3.home3.com	xx.yy.zz.a3	3130

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0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1

REQUEST HOST ADDRESS		
NULL-TERMINATED CONTENT IDENTIFIER		
NUMBER OF MEMBER (N)	MEMBER NUMBER (m)	GROUP ID
		CACHE MEMBER #1 IP ADDRESS
		CACHE MEMBER #2 IP ADDRESS
		CACHE MEMBER #3 IP ADDRESS
		CACHE MEMBER #4 IP ADDRESS

		CACHE MEMBER #N IP ADDRESS

FIG. 7

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TARGET CONTENT DATA IDENTIFIER	NUMBER OF GROUP MEMBERS (N)	GROUP ID	GROUP MEMBER LIST	
			MEMBER NUMBER (n)	IP ADDRESS
12345678	4	231	1 2 3 4	xx.yy.zz.a1 xx.yy.zz.a2 xx.yy.zz.a3 xx.yy.zz.a4
34567890	3	232	1 2 3	xx.yy.zz.b1 xx.yy.zz.b2 xx.yy.zz.b3
			
			
			
			

FIG. 8

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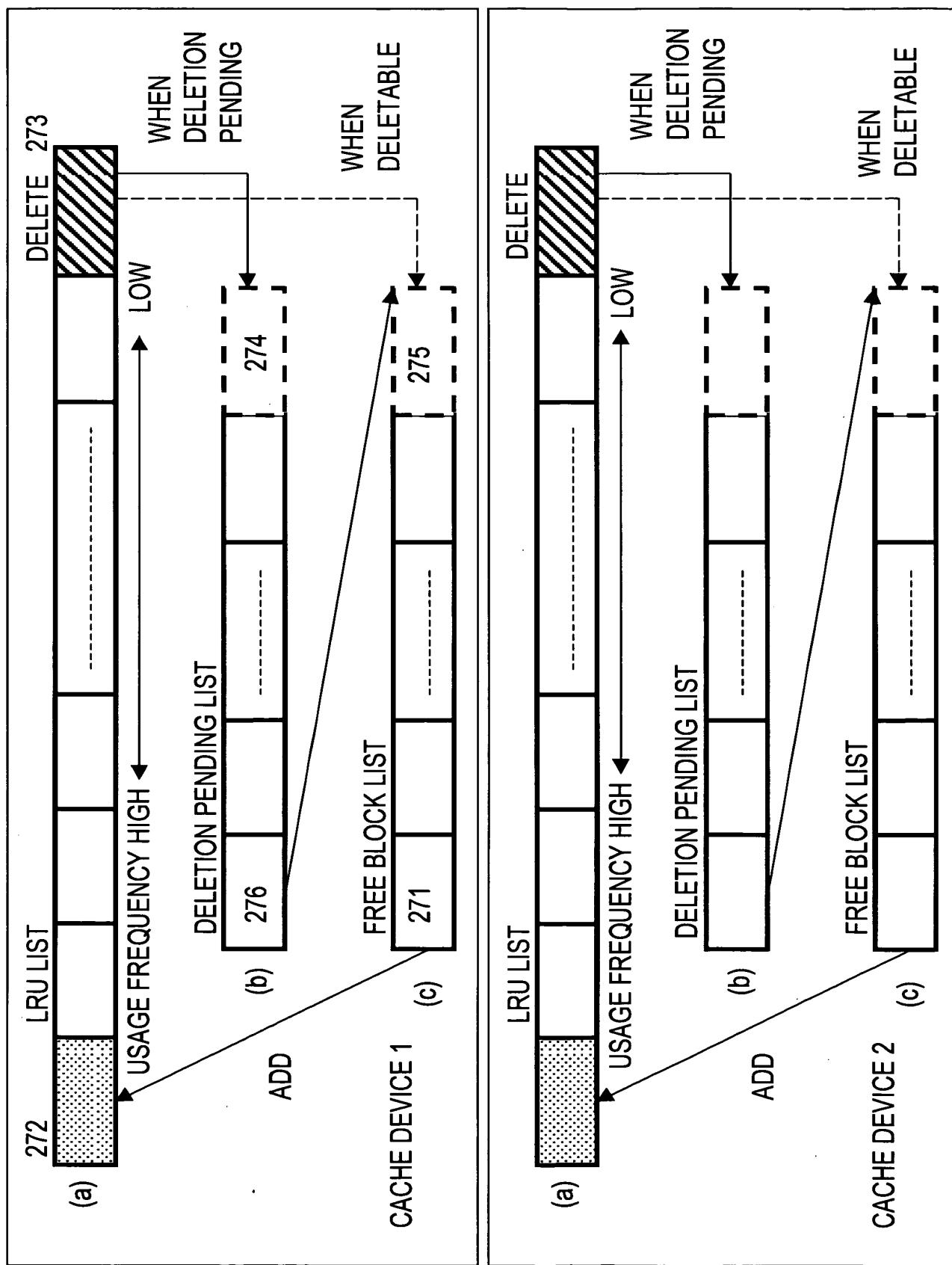


FIG. 9

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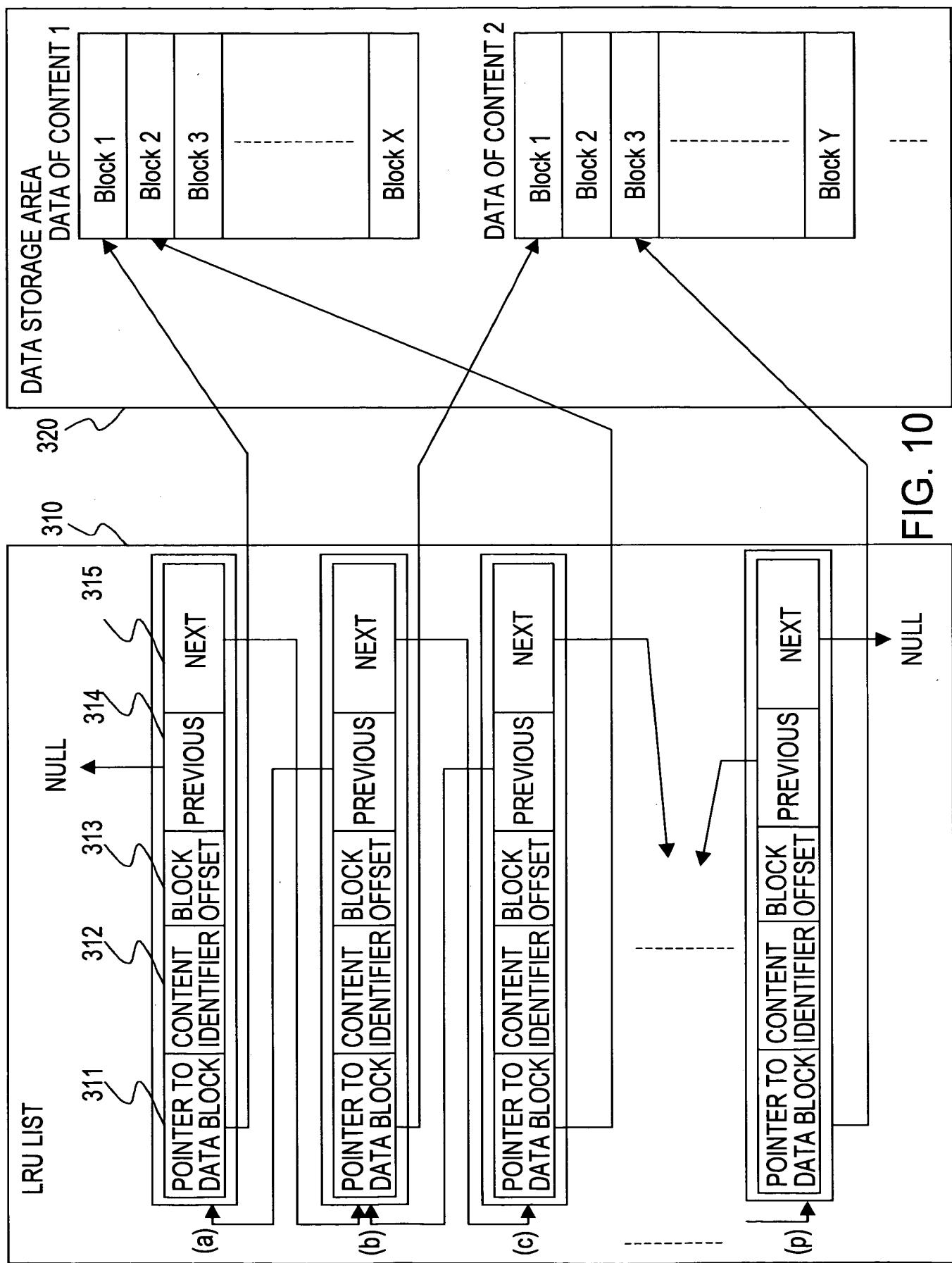
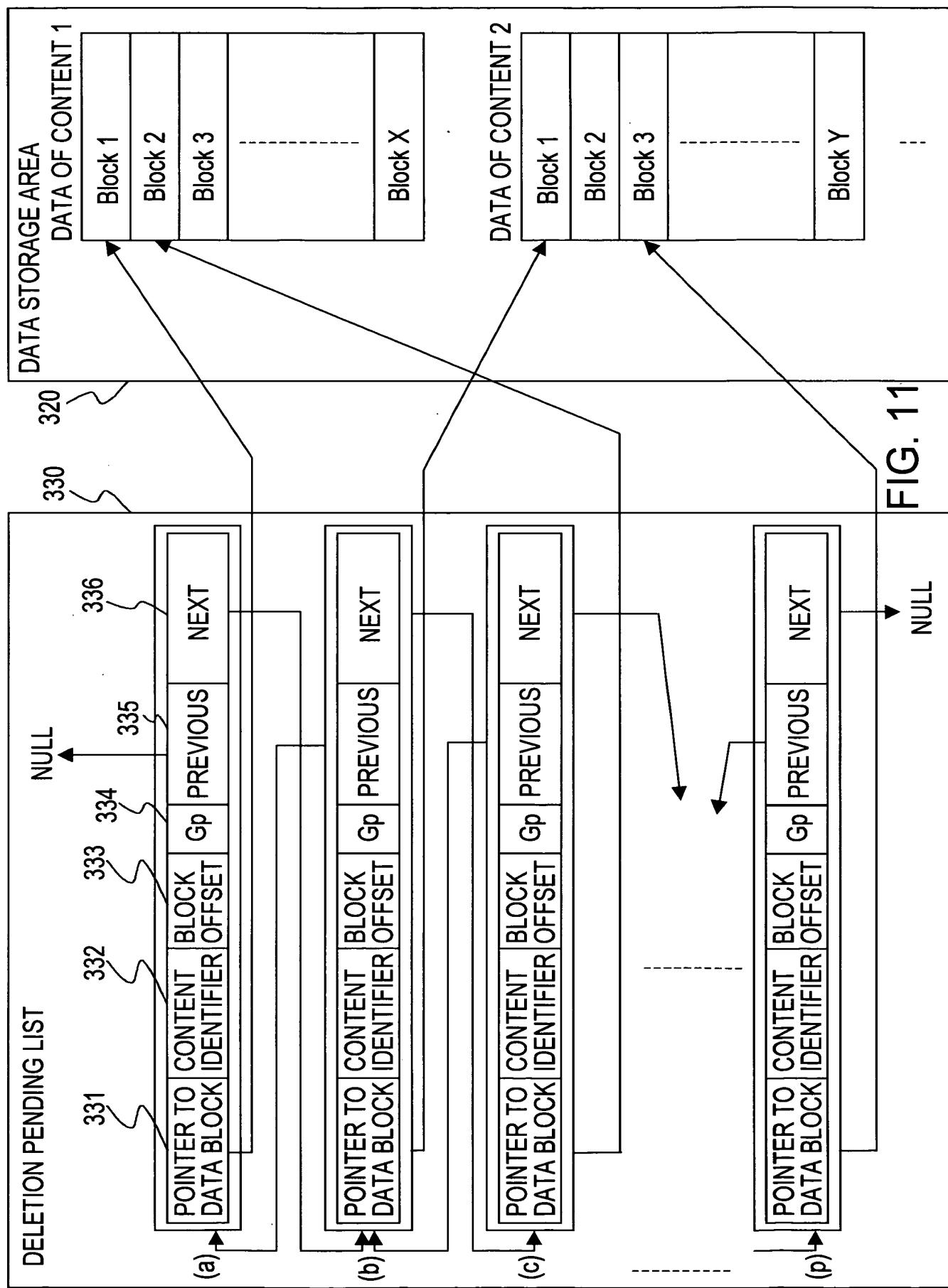
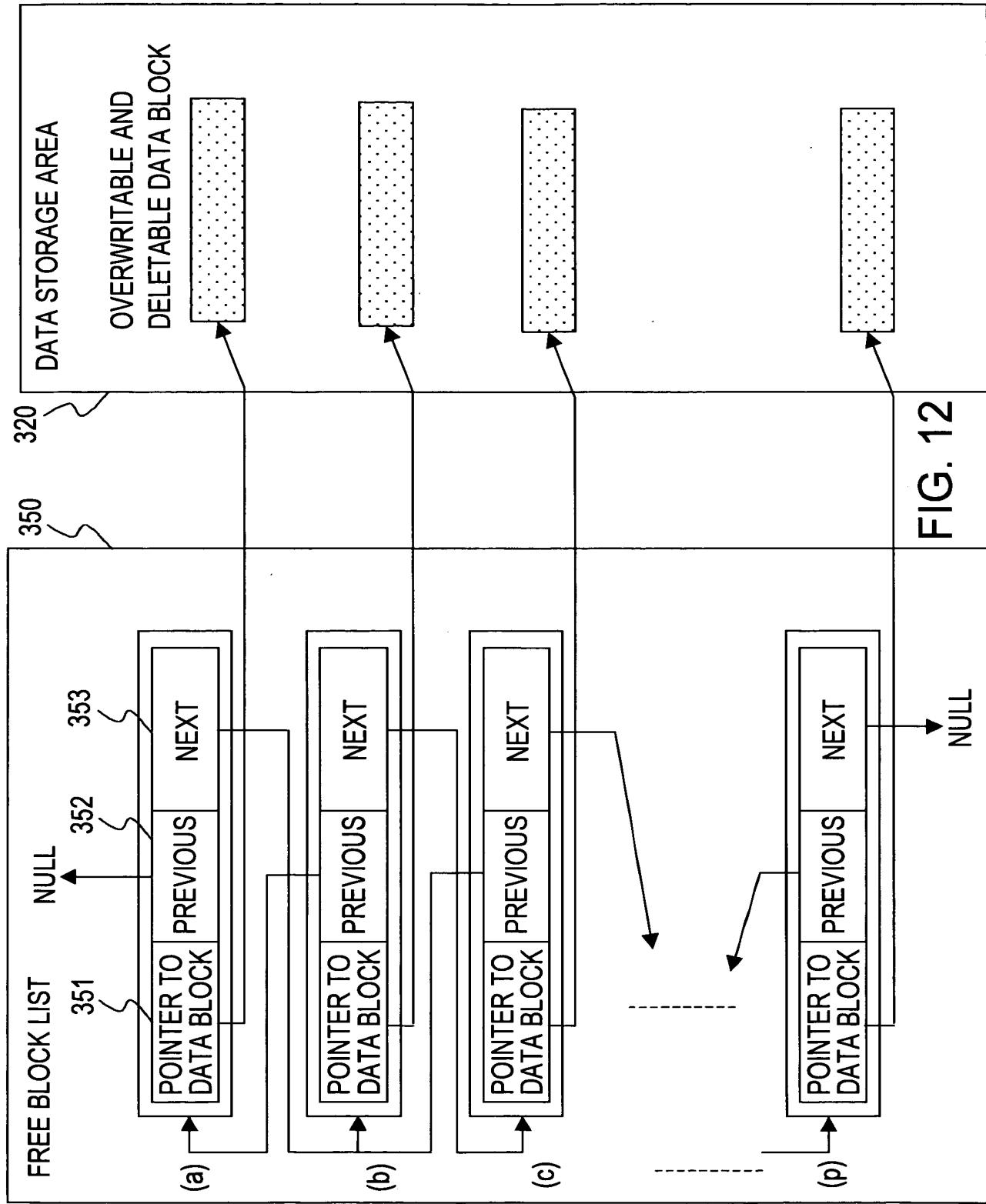


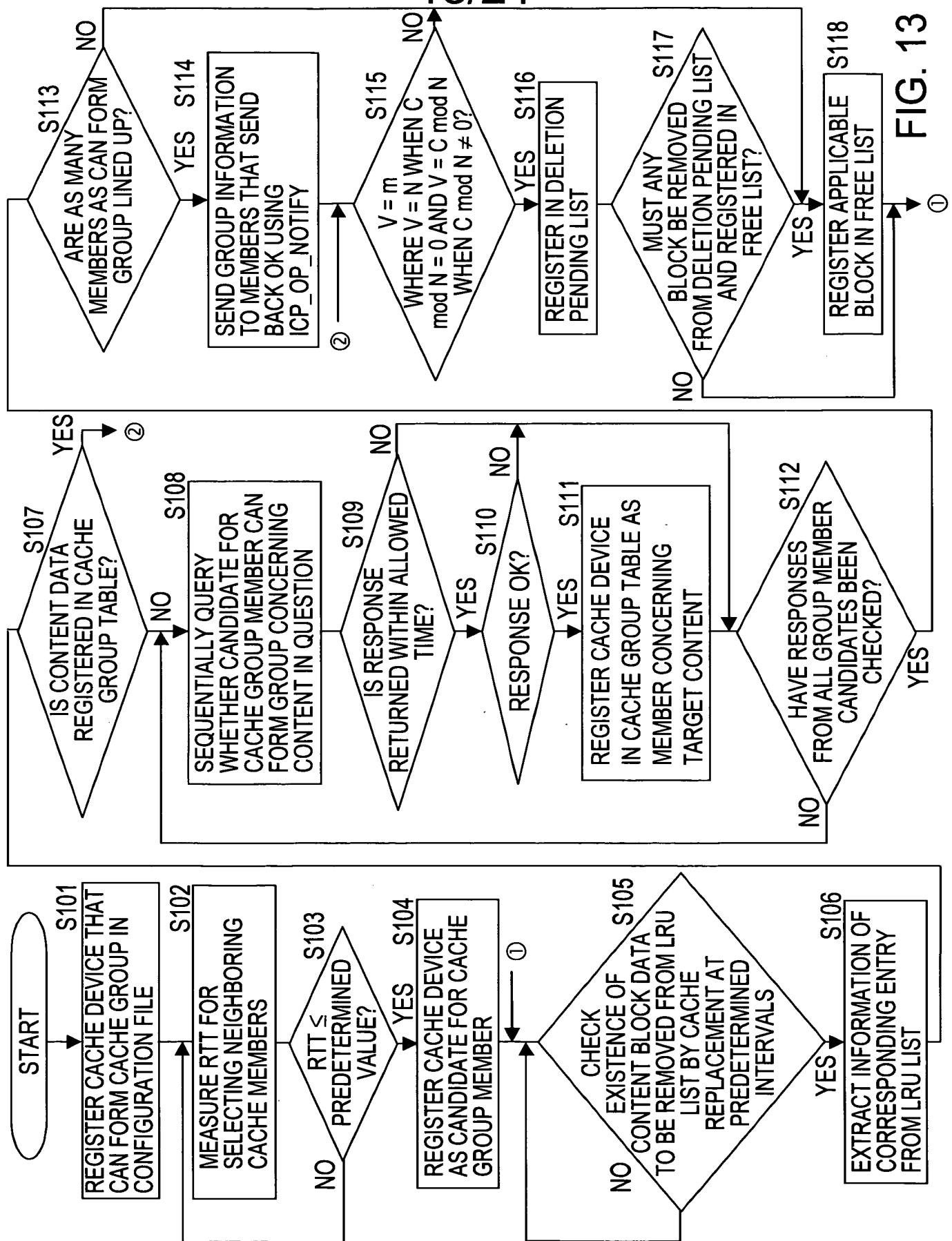
FIG. 10



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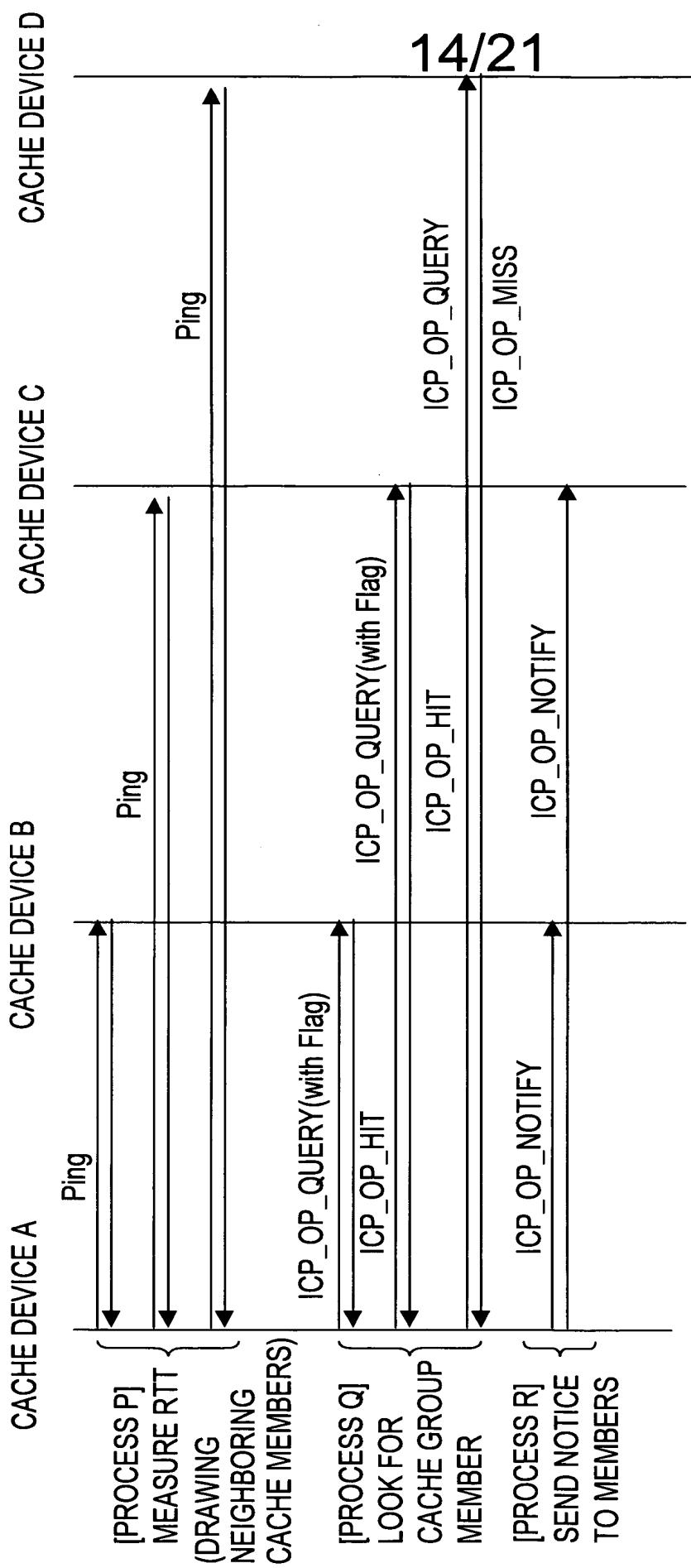
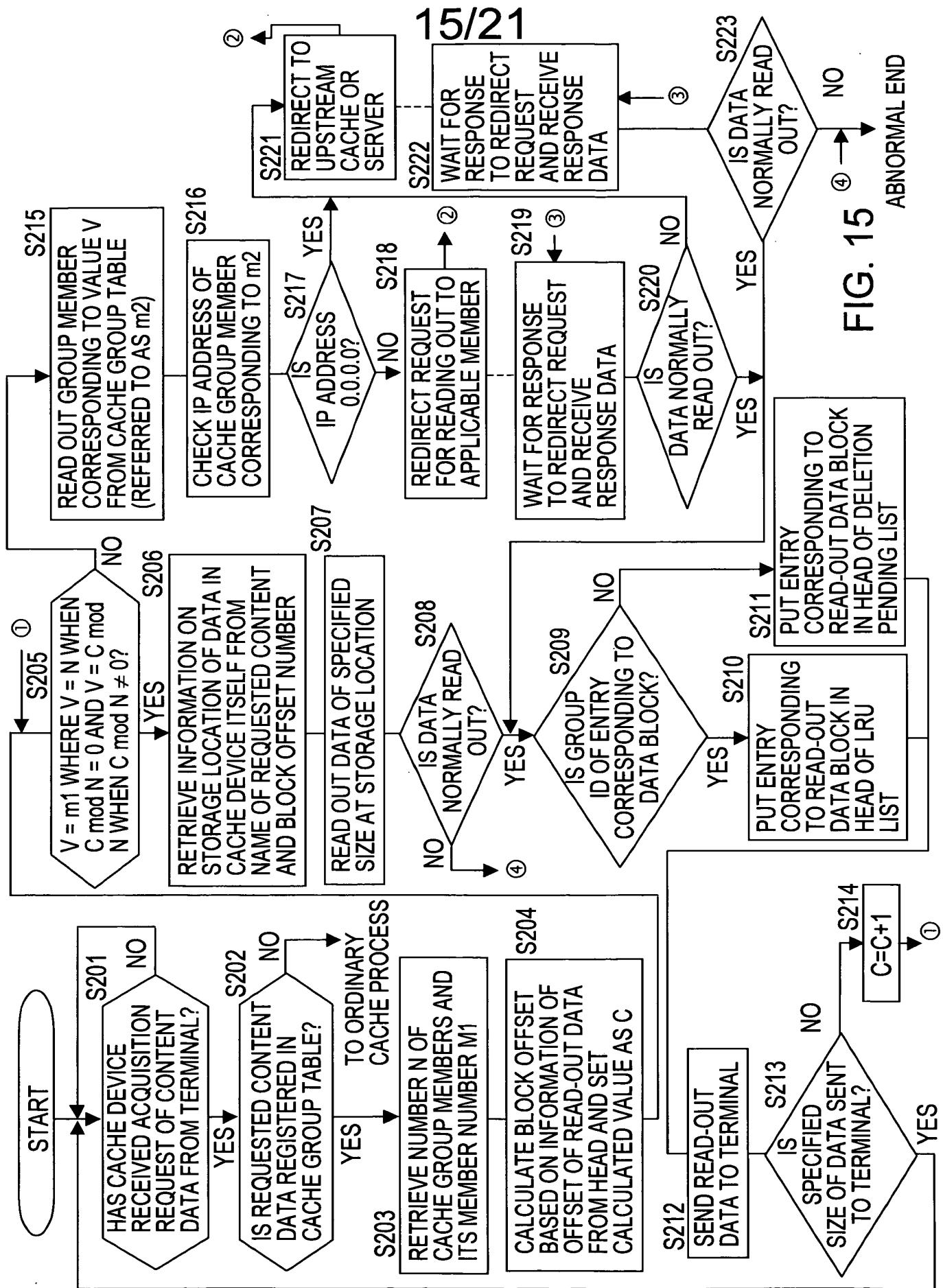
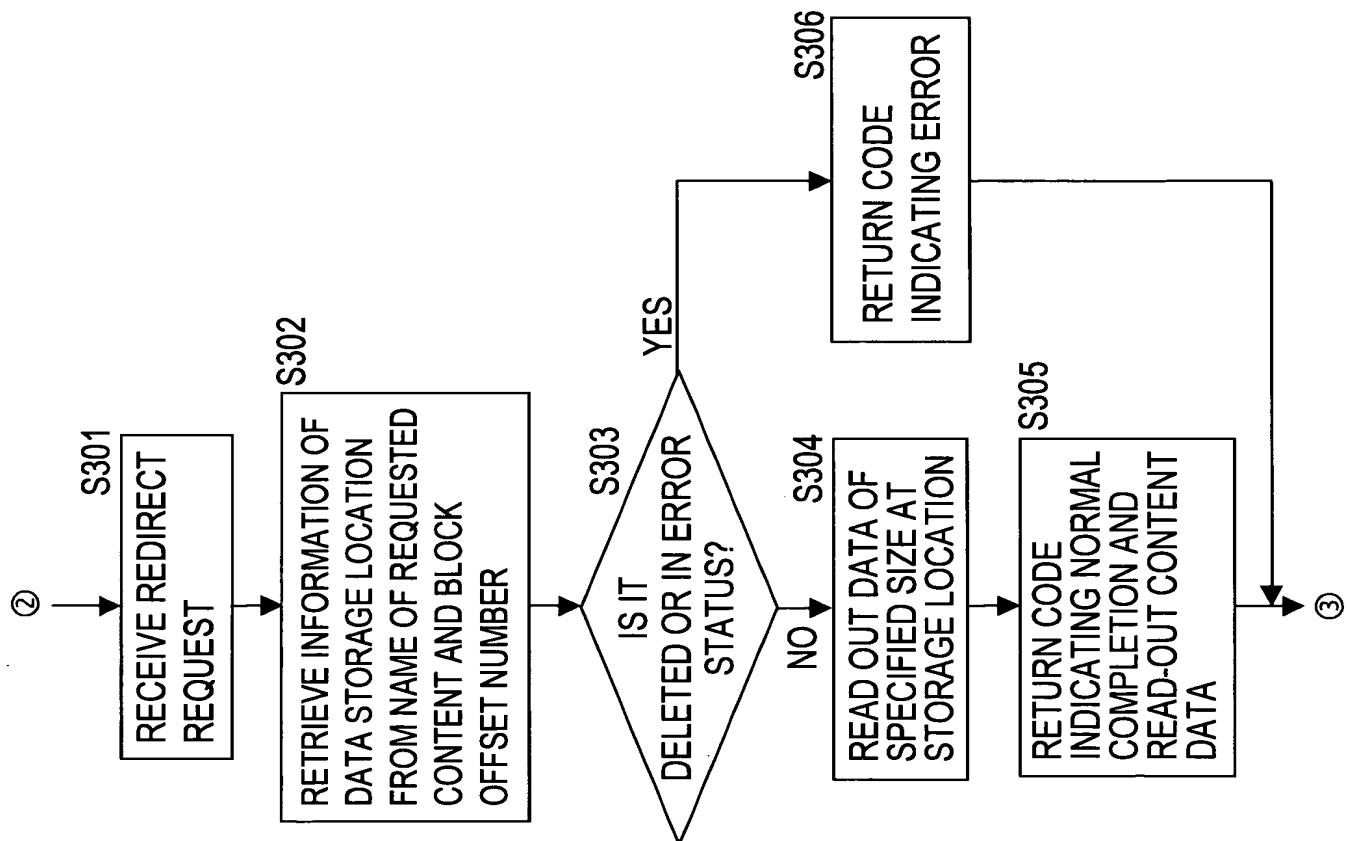


FIG. 14

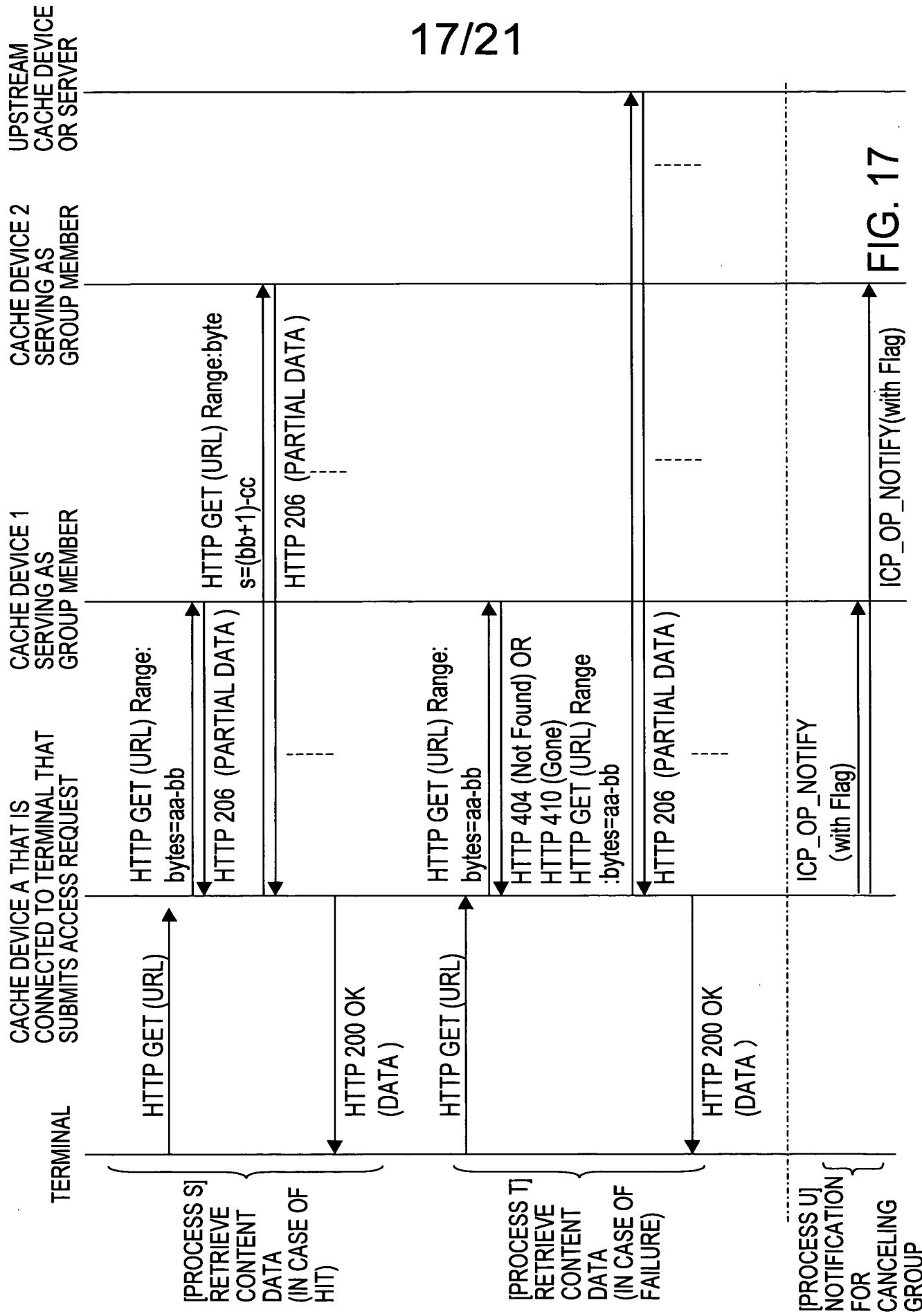


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FIG. 16



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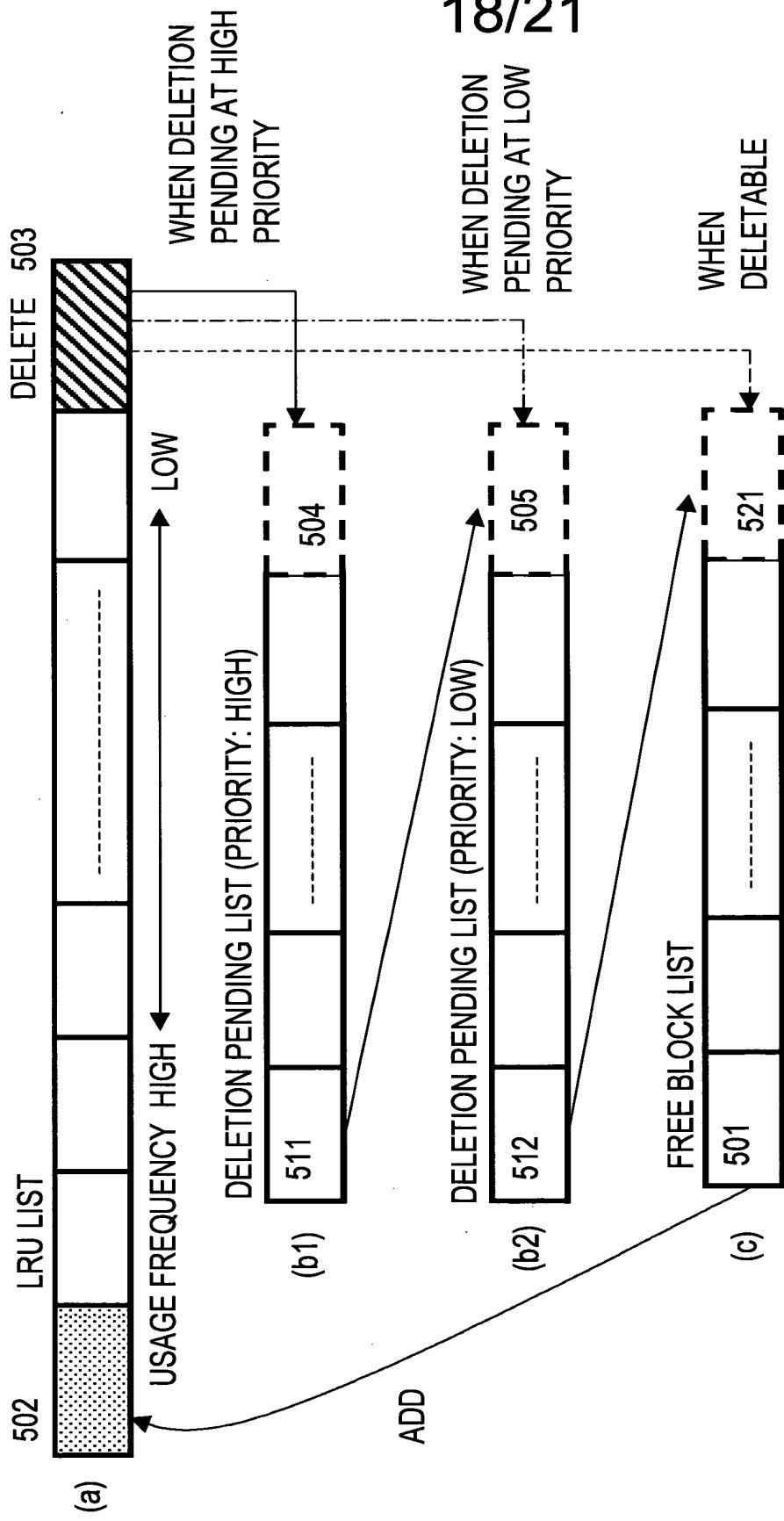


FIG. 18

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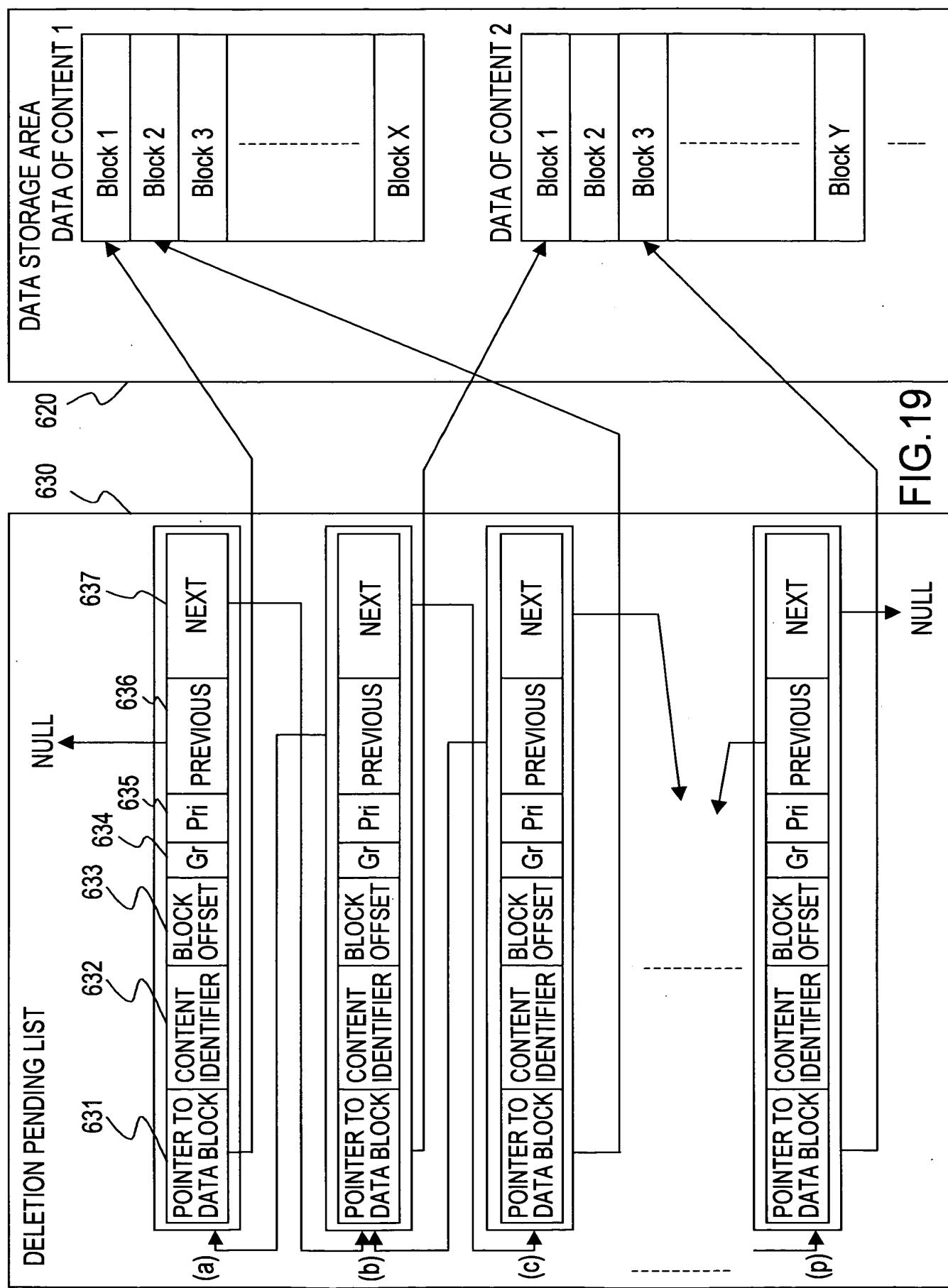
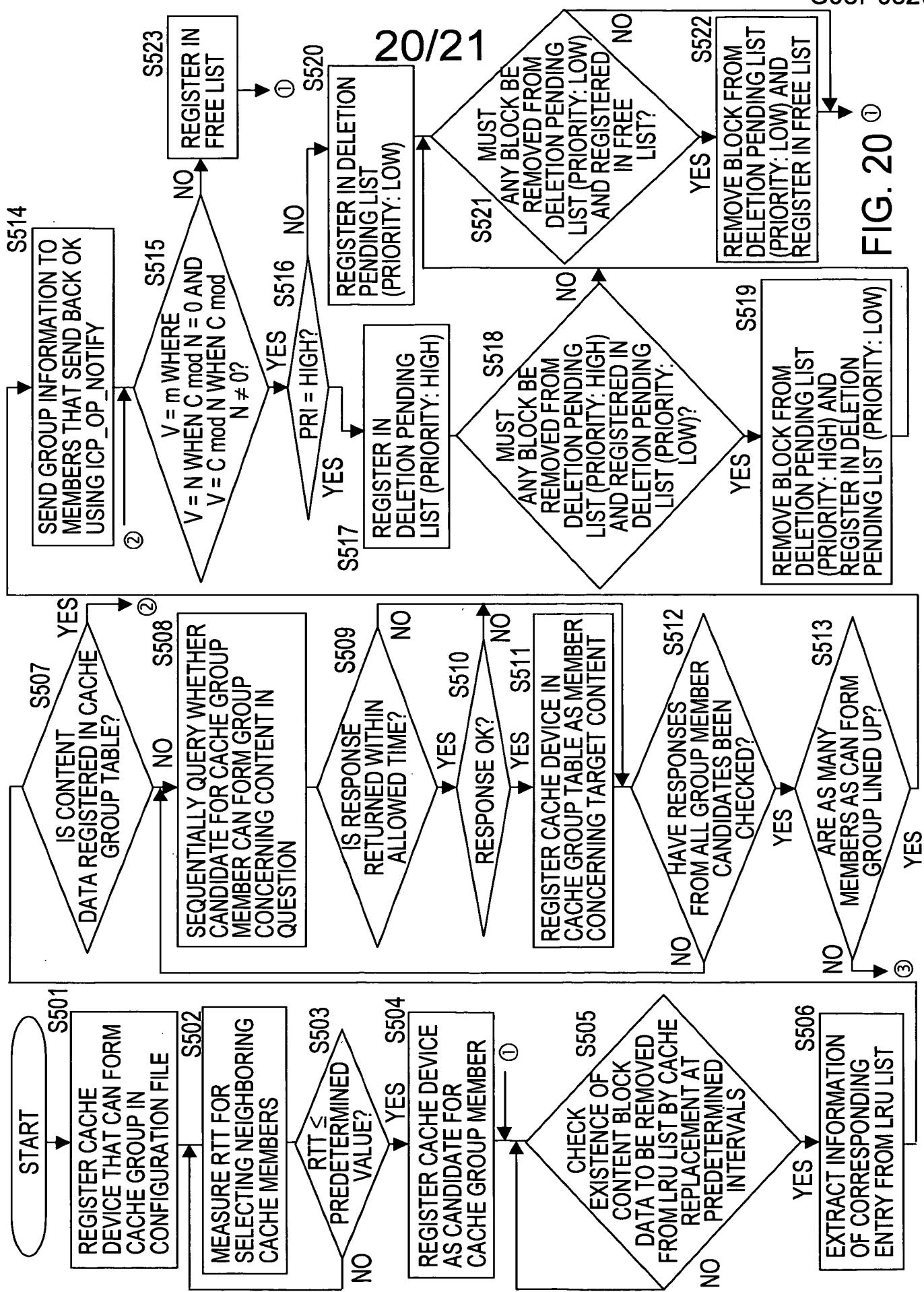


FIG. 19



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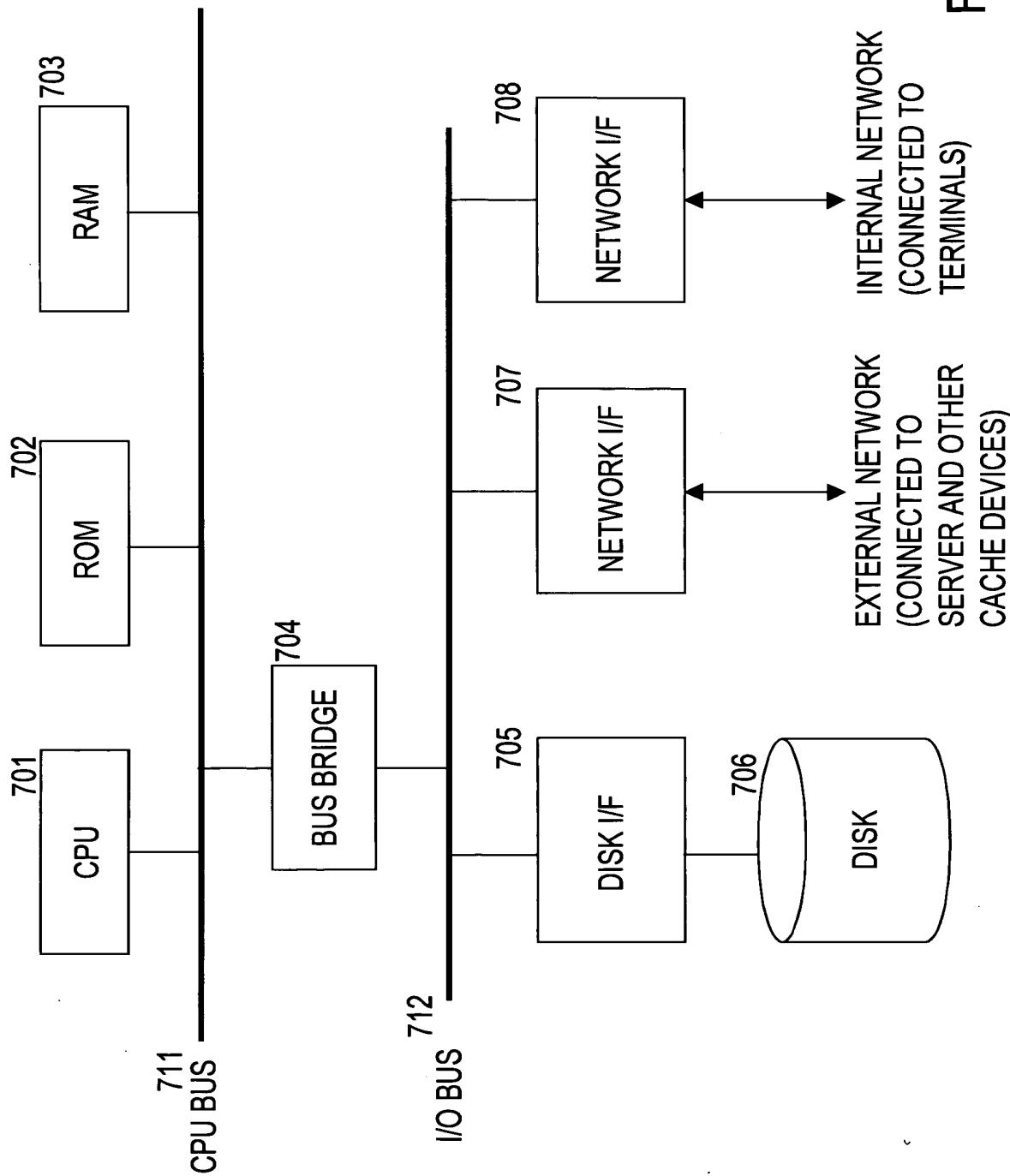


FIG. 21